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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/512,395	02/24/2000	Jay J. Sturges	42390.PO744c2 5784			
75	90 09/21/2006	EXAMINER				
Blakely Sokoloff Taylor & Zafman 12400 Wilshire Boulevard 7th Floor Los Angeles, CA 90025			VO, TED T			
			ART UNIT	PAPER NUMBER		
			2191			
			DATE MAILED: 09/21/2006	DATE MAILED: 09/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on 21 June 2006. 2a)⊠ This action is FINAL. 2b)□ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parfe Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) 21-37 and 39-41 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)□ Claim(s) 21-37, 39-41 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.			Application No	0.	Applicant(s)				
Ted T. Vo	Office Action Summary		09/512,395		STURGES, JAY	J.			
- The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALLING DATE OF THIS COMMUNICATION. Extensions for many be a valiable under the provisions of 3 OFR 1.1360, in one with however, may any by the intention of this communication of 3 OFR 1.1360, in one with however, may any by the intention of 10 U.S. C; \$130, MONTHS from the making date of this communication. Fallius to reply with this set or ended period for reply will. by stables, cause the application to become ABANDONEO GU SJ. C; \$133, Mary reply received by the Office later than there mentits after the malling date of this communication. Plant is the specification become ABANDONEO GU SJ. C; \$133, Mary reply received by the Office later than there mentits after the malling date of this communication, even if timely fitted, may reduce any camer parent them adjustment. See 3 OFR 1.7060, Mary reply received by the Office later than the market and part of the part of the parent of the communication, even if timely fitted, may reduce any camer parent the major than the parent of the communication, even if timely fitted, may reduce any camer parent of the major than the parent of the market and parent of the parent of the major than the major than the parent of the parent of the major than the major than the parent of the major than the major than the parent of the parent parent of the parent			Examiner		Art Unit				
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:	11)	The oath or declaration is objected to by the Ex	aminer. Note th	ne attached Office	Action or form P	TO-152.			
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Application/Control Number: 09/512,395 Page 2

Art Unit: 2191

DETAILED ACTION

1. This action is in response to the amendment filed on 06/21/2006.

Claims 21-37, 39-41 are pending in the application.

Response to Arguments

2. Applicant's arguments have been considered.

With regards to the amendment and argument to the specification: Applicants' specification fails to comply with 1.117(b). The arrangement of the heading sections in the specification would be respectfully required pursuant to 37 CFR 1.77(b).

- With regards to double patenting rejection: Non-responsive: The rejection is maintained.
- With regards to the amendment and argument under the rejection of 101. The control limitation in the claim is "translating". The phrase "to generate a subroutine address without an intermediate translation" appears to be "what it is" rather than "what it does". Therefore, the Claim as a whole is for "translating a source code instruction", that fails to cause a result, but merely preempts an abstract idea. This claim fails to method in a physical transformation; particularly the transformation must cause a result occurring outside the computer for a computer-implemented method. Thus, this method fails to meet the statutory requirement under the section 35 USC § 101.
 - -With regards to the argument to the rejection of 112 first paragraph: It is withdrawn.
- -With regards to the argument to the rejection of 112 second paragraph: The claim as a whole is "translating a source code instruction to generate a subroutine address without an intermediate translation". This limitation fails to particularly pointing out and <u>distinctly claiming the subject matter</u> since there are missing many inter-steps to distinguish from a generic word, "translation". It should be noted that there would be many interpretations against an attempt for covering all aspects. For example, if claiming, "sending a man to the moon", it will be indefinite because it does not know which way a man is sent to the moon. The claim's method of Applicants is similarly to the example.

Application/Control Number: 09/512,395 Page 3

Art Unit: 2191

-With regards to the arguments to the rejection of 102. The arguments fail to be persuasive.

Applicants' argument to the rejection of claims 21-37, and 39-41 that Examiner provides a general description of what Gabriel teaching and showing no how the cited sections of Gabriel how to relate to the claimed element.

Examiner disagrees: Applicants' claim attempt to covers all aspect that covers prior arts' feature.

Gabriel's teaching includes the claimed limitation as cited. Applicants as a skill in the art should explain

or show how their claims are different. According to 1.111 (b)-(c), Applicants fail to do so.

With regards to the limitation recited in claims 36: "translating a source code instruction to generate a subroutine address without an intermediate translation", it clearly that the claim covers a manual act of hand coding; it cover a definition of translation. An INTERPRETER in a computer will meet such a limitation. See the "interpreter", p. 20-21, the word "INTERPRETER" teaches this limitation.

Specification

The specification of this application REMAINS objected to.

The amendment fails to complied with 37 CFR 1.77(b).

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.

(f) BACKGROUND OF THE INVENTION.

(1) Field of the Invention.

Application/Control Number: 09/512,395 Page 4

Art Unit: 2191

(2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.

- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Omum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 21-37, 39-41 remain rejected under the judicially created doctrine of obviousness-type double patenting as being respectively unpatentable over claims 10-18 of U. S. Patent No. **6,138,273**.

Claim Rejections - 35 USC § 101

6. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

7. The claims 36-37, 39-41 are rejected under 35 U.S.C 101 because the claimed invention is directed to non-statutory subject matter.

The claimed invention as a whole must accomplish a practical application. That is, it must produce a "useful, concrete and tangible result." State Street, 149 F.3d at 1373, 47 USPQ2d at 1601-02.

Page 5

Federal courts have held that 35 U.S.C. 101 does have certain limits. First, the phrase "anything under the sun that is made by man" is limited by the text of 35 U.S.C. 101, meaning that one may only patent something that is a machine, manufacture, composition of matter or a process. See, e.g., Alappat, 33 F.3d at 1542, 31 USPQ2d at 1556; Warmerdam, 33 F.3d at 1358, 31 USPQ2d at 1757 (Fed. Cir. 1994). Second, 35 U.S.C. 101 requires that the subject matter sought to be patented be a "useful" invention. Accordingly, a complete definition of the scope of 35 U.S.C. 101, reflecting Congressional intent, is that any new and useful process, machine, manufacture or composition of matter under the sun that is made by man is the proper subject matter of a patent. The subject matter courts have found to be outside the four statutory categories of invention is limited to abstract ideas, laws of nature and natural phenomena. While this is easily stated, determining whether an applicant is seeking to patent an abstract idea, a law of nature or a natural phenomenon has proven to be challenging. These three exclusions recognize that subject matter that is not a practical application or use of an idea, a law of nature or a natural phenomenon is not patentable. See, e.g., Rubber-Tip Pencil Co. v. Howard, 87 U.S. (20 Wall.) 498, 507 (1874) ("idea of itself is not patentable, but a new device by which it may be made practically useful is"); Mackay Radio & Telegraph Co. v. Radio Corp. of America, 306 U.S. 86, 94, 40 USPQ 199, 202 (1939) ("While a scientific truth, or the mathematical expression of it, is not patentable invention, a novel and useful structure created with the aid of knowledge of scientific truth may be."); Warmerdam, 33 F.3d at 1360, 31 USPQ2d at 1759 ("steps of locating" a medial

As per Claim 36: Regarding the limitations recited in Claim 36:

A method implemented on a data processing platform comprising:

translating a source code instruction to generate a subroutine address without an intermediate translation.

The Claim as a whole is for "translating a source code instruction", that fails to <u>cause a result</u>, but merely preempts an abstract idea. This claim fails to method in a physical transformation; particularly the transformation must cause a result occurring outside the computer for a computer-implemented method. Thus, this method fails to meet the statutory requirement under the section *35 USC § 101*.

Regarding Claim 37, "wherein translating the source code instruction includes directly translating the source code", this claiming "directly translating" is only addressing to an indented manner of a translation without telling how or why it is included with (See MPEP 211.04). Therefore, Claim 37 fails to remedy the deficiency of the independent claim 36.

Regarding Claim 39, "comprising receiving the source code instruction". Since Claim 36 is analyzed without providing a "useful, concrete and tangible result". This mere recitation, "comprising receiving the source code instruction" does not cause any change in the scope of the claim, and thus fails to remedy the deficiency of the independent claim 36.

Regarding Claim 40, "wherein translating the source code instruction includes parsing the source code instruction". Since Claim 36 is analyzed without providing a "useful, concrete and tangible result". This mere recitation, "wherein translating the source code instruction includes parsing the source code instruction" does not cause any change in the scope of the claim, and thus fails to remedy the deficiency of the independent claim 36.

Regarding Claim 41, "wherein translating the source code instruction includes parsing the source code instruction". Since Claim 36 is analyzed without providing a "useful, concrete and tangible result". This mere recitation, "wherein translating the source code instruction includes parsing the source code instruction" does not fails to remedy the deficiency of the independent claim 36.

To expedite a complete examination of the instant application the claims rejected under 35 U.S.C. 101 (nonstatutory) above are further rejected as set forth below in anticipation of application amending these claims to place them within the four statutory categories of invention.

Claim Rejections - 35 USC § 112

- 8. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 9. Claims 36-37, 39-41, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 36-37, 39-41: With regards to the sole limitation in the claims, particularly in the independent claim 36, "A method implemented on a data processing platform comprising: translating a source code instruction to generate a subroutine address without an intermediate translation". This type of the claim fails to provider at least an inter-step to make the claim distinct from a generic concept or definition. For example, one tend to say: A method for translating comprising..., by providing particular steps for making the translation a distinction from a generic idea of the word "translating". This Claim tends to cover a definition or a generic scope rather being functional limitation. Therefore, the claim 1 and thus its dependent claims 37, 39-41 fail to point what is the subject mater of the claims, and fail to distinctly claiming the subject matter which the claim regards as a patentable feature, as set forth by this statute.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claim 21-37, 39-41 are rejected under 35 U.S.C. 102(b) as being anticipated by Richard Gabriel (Hereinafter: Gabriel), "Performance and Evaluation of Lisp Systems", MIT Press, August 1985.

Given the broadest reasonable interpretation of followed claims in light of the specification.

As per Claim 21: Gabriel discloses a common technique that uses a handcoded interpreter to interpreter a literal source code such as "+" (p. 36), "COND", "EQUAL", "=" (p.20-21), or a lexical bound Lips such as lambda (p. 21). When such a literal code encountered, the interpreter dispatches the literal source code to internal routines (Discussed in p. 20: Gabriel gives an example to a Lips' literal source code such as COND, when encountered, will dispatch to a COND handler. This is implied to "EQUAL", "=", (p. 21), or

"+" (p. 36). The dispatch uses common function call such as CALL (p. 35) that opens and stores the routine address in a virtual address space in a stack. This rationale addresses to the claim recited as, *An apparatus comprising:*

a machine readable storage medium having stored thereon instructions capable of being executed by a data processing platform, the instructions being adapted to (the stack, the program shown in the reference are the elements related to or stored in a computer storage):

receive a literal source code macroinstruction (See the interpreter, p. 7, p. 20-21, p. 36: "+", "=", "EQUAL", or a lexical bound Lips);

encode the literal source code macroinstruction into a corresponding subroutine address without an intermediate translation (use function call, p. 35);

generate an execution stream ('internal routines', p. 20); and

store the subroutine address (use stack associated with function call, p. 35);

As per Claim 22: The apparatus of claim 21, wherein the instructions are further adapted to execute a subroutine identified by the subroutine address (See internal routines and function call).

As per Claim 23: The apparatus of claim 22, wherein the instructions are further adapted to push at least one associated argument onto a stack, the at least one associated argument adapted to be used as an input to the subroutine identified by the subroutine address (See discussion of function call using stack, p. 35, where push/pop is a stack instruction).

As per Claim 24: The apparatus of claim 22, wherein the instructions are further adapted to pop the at least one associated argument from a stack, the at least one associated argument adapted to be used as an input to the subroutine identified by the subroutine address (See discussion of function call using stack, p. 35, where push/pop is a stack instruction).

As per Claim 25: The apparatus of claim 22, wherein the instructions are further adapted to push a result of the execution of the subroutine onto a stack (See function call).

As per Claim 26: The apparatus of claim 22, wherein the instructions are further adapted to point to the first item associated with the subroutine stored in the execution stream (see p. 21, "type dispatch on the first argument... pointers").

As per Claim 27: The apparatus of claim 21, wherein the instructions are further adapted to recursively execute a subroutine (intended to a common programming technique).

As per Claim 28: Gabriel discloses a common technique a method comprising:

receiving a source code command input stream comprising a macroinstruction; (Interpreter receives symbols such as "+", "=", "EQUAL", or a lexical bound Lips (p. 7, p. 20-21, p. 36));

encoding said the instruction into a corresponding subroutine address without an intermediate translation (use internal routines to bind the symbols, see p.20-21);

generating an execution stream for storing the subroutine address and associated arguments (That is the handcoded interpreter, and stack, function call); and

executing a subroutine identified by the subroutine address (That is the internal routines, stack, and function call).

As per Claim 29: The method of claim 28, and further comprising pushing an argument onto a stack, the argument representing an input to said the subroutine identified by the subroutine address (Claim recites common push pop function used in stack, see p. 20-21).

As per Claim 30: The method of claim 28, and further comprising popping an argument from a stack, the argument representing an input to said subroutine identified by said the subroutine address (Claim recites common push pop function used in stack, see p. 20-21).

As per Claim 31: The method of claim 28, and further comprising pushing a result of the execution of the subroutine onto a stack (Claim recites common push pop function used in stack, see p. 20-21).

As per Claim 32: The method of claim 28, and further comprising pointing to the first item associated with the subroutine stored in the execution stream (see p. 21, "type dispatch on the first argument... pointers"). As per Claim 33: An apparatus comprising:

a machine readable storage medium having stored thereon instructions capable of being executed by a data processing platform, said I instructions being adapted to (the stack, the program shown in the reference are the elements related to or stored in a computer storage):

encode macroinstructions to provide a corresponding executable address without an intermediate translation (See the interpreter, p. 20-21).

As per Claim 34: The apparatus of claim 33, wherein the instructions are further adapted to receive the macroinstructions (For example, see "+" in p. 36, or see "COND", "EQUAL", in p. 20-21).

As per Claim 35: The apparatus of claim 33, wherein the instructions are further adapted to generate an execution stream (internal routine, or handcode)

As per Claim 36: Regarding, A method implemented on a data processing platform comprising: translating a source code instruction to generate a subroutine address without an intermediate translation., see the "interpreter", p. 20-21, the word "INTERPRETER" teaches this limitation. Examiner note: Handcoding meets this claim limitation; therefore, so does an interpreter).

As per Claim 37: The method of claim 36, wherein translating the source code instruction includes directly translating the source code (Still inherent in the word "INTERPRETER").

As per Claim 39: The method of claim 36, further comprising receiving the source code instruction (Any Interpreter applied to a program will receive at least an instruction).

As per Claim 40: The method of claim 36, wherein translating the source code instruction includes parsing the source code instruction (The Interpreter when it reads a code, it can not be smart enough in order to see a symbol, it requires parsing).

As per Claim 41: The method of claim 36, further comprising generating an execution stream for storing the subroutine address (The act of compiler or of interpreter is to generate an execution stream).

Conclusion

12. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted T. Vo whose telephone number is (571) 272-3706. The examiner can normally be reached on 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y. Zhen can be reached on (571) 272-3708.

The facsimile number for the organization where this application or proceeding is assigned is the Central Facsimile number **571-273-8300**.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ted T. Vo

Primary Examiner

Art Unit 2191

September 05, 2006